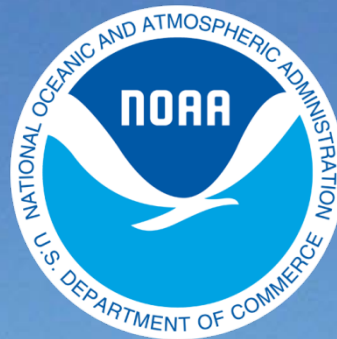


# BookletChart™

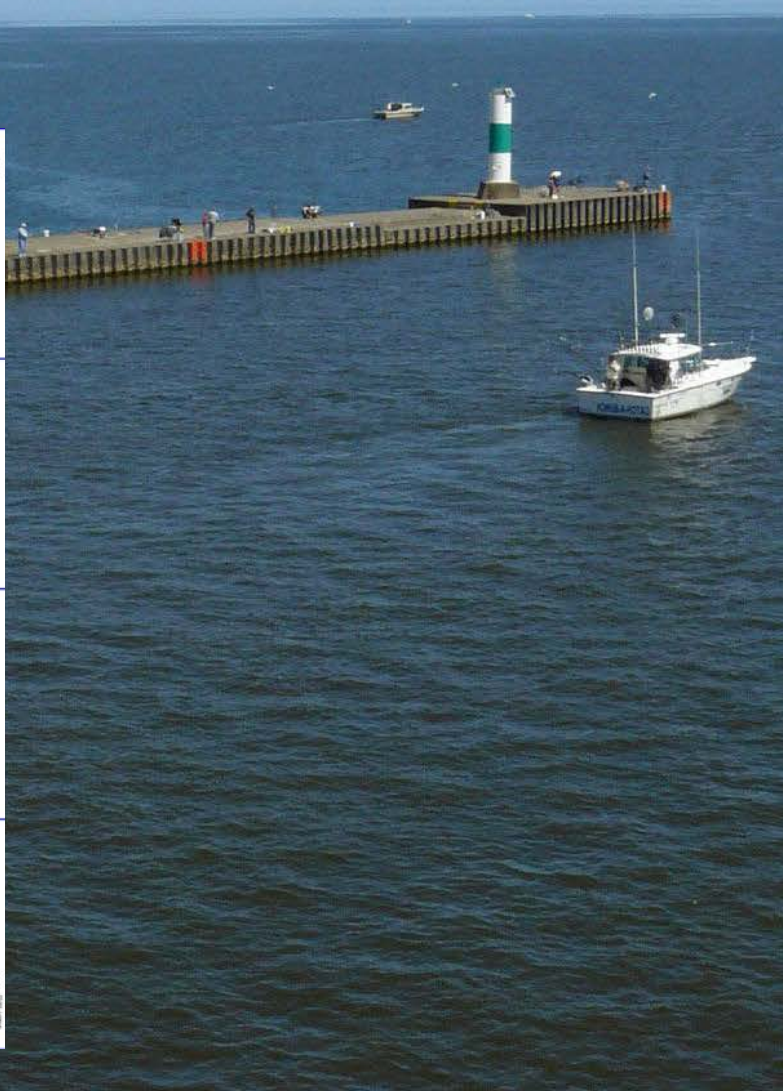
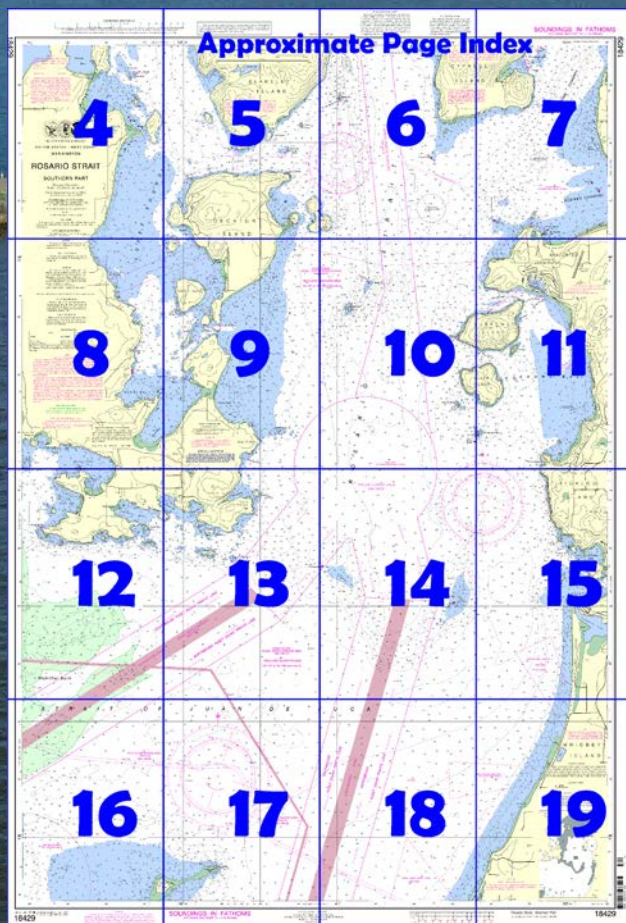
## Rosario Strait – Southern Part NOAA Chart 18429



*A reduced-scale NOAA nautical chart for small boaters*  
*When possible, use the full-size NOAA chart for navigation.*



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the**  
**National Oceanic and Atmospheric Administration**  
**National Ocean Service**  
**Office of Coast Survey**  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
**888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=18429>.



#### (Selected Excerpts from Coast Pilot)

**Caution.**—Since logging is one of the main industries of the region, free-floating logs and submerged deadheads or sinkers are a constant source of danger in the Strait of Juan de Fuca and Puget Sound. The danger is increased during freshets, after storms, and unusually high tides. **Deadheads** or **sinkers** are logs which have become adrift from rafts or booms, have become waterlogged, and float in a vertical position with one end just awash, rising and falling

with the tide.

**Strait of Juan de Fuca, E end.**—**Hein Bank**, with a least depth of 2½ fathoms, lies 8.5 miles SE of Discovery Island; it is about 2 miles long in a N direction, within the 10-fathom curve, and 0.8 mile wide. The shoalest part of the bank is covered with thick kelp in the summer. It is marked by two lighted buoys, the northernmost is equipped with a racon.

**Smith Island**, 5 miles W of Whidbey Island and 8 miles ESE of Hein Bank, is irregular in shape and about 0.5 mile long. The E end is low, but rises abruptly to an elevation of 55 feet at its W end, terminating in a white perpendicular cliff composed of sand and gravel. A rocky bank, covered with kelp, extends about 2 miles W of the island over depths of 3 to 6 fathoms. A rock that bares at lowest tides is about 0.3 mile W of Smith Island. Strong currents set in and around the shoal area, especially on the flood, and deep-draft vessels should keep well outside the 10-fathom curve to avoid being set into danger. **Smith Island Light** (48°19'06"N., 122°50'38"W.), 97 feet above the water is shown from a 45-foot skeleton tower near the W extremity of the island.

A **restricted area** of an air-to-surface weapon range is W of Smith Island. (See **334.1180**, chapter 2, for limits and regulations.)

**Minor Island**, small, low, and rocky, lies 1 mile NE of Smith Island, and at lowest tide is connected with it by a gravel and boulder spit. A light is on the island.

The northernmost part of the western shore of **Whidbey Island** forms the E end of the Strait of Juan de Fuca. This part of the island has a uniform sandy shore backed by low and rolling upland of farm and wooded areas.

**Naval restricted areas** are adjacent to the northernmost part of the W shore of Whidbey Island. (See **334.1200**, chapter 2, for limits and regulations.)

**East Sound** indents Orcas Island NNW for about 6 miles. Depths vary from 15 fathoms at the entrance to 9 fathoms less than 0.2 mile from the head. There are no outlying dangers, and the shores may be approached to within 0.2 mile; however, a shoal covered less than 5 fathoms extends some 700 yards off the W shore, 0.8 mile inside the entrance. Anchorage may be had anywhere in the sound.

**Olga** is a village on the W shore of **Buck Bay**, a small cove on the E shore of the sound just inside the entrance.

**Cascade Bay**, a small cove on the E side of the sound, about 3 miles N of the entrance, is the site of a large resort with floats having berths with electricity for about 60 craft. Gasoline, diesel fuel, water, ice, and a restaurant are available. Depths of 15 feet are reported alongside the floats. The large white resort hotel on **Rosario Point**, the W point of the bay, is conspicuous.

**Currents.**—For times and velocities of current in Rosario Strait and vicinity, the Tidal Current Tables should be consulted. The currents in Lopez, Thatcher, and Obstruction Passes are reported to attain velocities of 3 to 7 knots. This should be kept in mind when proceeding through Rosario Strait, particularly at night or in thick weather. On the ebb of a large tide off the entrance to the passes, a S wind causes tide rips that are dangerous to small craft.

Currents in the narrows of Deception Pass attain velocities in excess of 8 knots at times and cause strong eddies along the shores. With W weather, heavy swells and tide rips form and make passage dangerous to all small craft. (See the Tidal Current Tables for daily predictions.)

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle

Commander  
13<sup>th</sup> CG District  
Seattle, WA

(206) 220-7001




# Table of Selected Chart Notes

**FLOUNDER BAY**  
Numerous private markers and piling mark the entrance channel.

**HEIGHTS**  
Heights in feet above Mean High Water.

**Note**  
Naval Air Station small arms range operates 7 days a week. Red flashing light and flags are displayed during live fire exercises. Use caution when transiting near the zone.

**NOTE D**  
The U.S. Coast Guard operates a mandatory Vessel Traffic Service (VTS) system in Puget Sound. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot and/or the VTS User's Manual. The entire area of this chart falls within the Vessel Traffic Service (VTS) system.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:  
  
Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

For Symbols and Abbreviations see Chart No. 1

**LOCAL MAGNETIC DISTURBANCE**  
Differences from the normal variation have been observed as follows:  
Eastern shore of Burrows Bay 4°

**CAUTION**  
Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution. Station positions are shown thus:  
○ (Accurate location)    ◐ (Approximate location)

**NOAA WEATHER RADIO BROADCASTS**  
The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.  
Puget Sound, WA    WWG-24    162.425 MHz

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**RADAR REFLECTORS**  
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**AIDS TO NAVIGATION**  
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8902 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**HORIZONTAL DATUM**  
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.636" southward and 4.632" westward to agree with this chart.

**Mercator Projection**  
Scale 1:25,000 at Lat. 48°26'  
**North American Datum of 1983**  
(World Geodetic System 1984)  
**SOUNDINGS IN FATHOMS**  
(FATHOMS AND FEET TO ELEVEN FATHOMS)  
AT MEAN LOWER LOW WATER

**NATIONAL WILDLIFE REFUGE**  
The areas labeled NWR (National Wildlife Refuge) are closed to the public to protect breeding colonies of seabirds, endangered and threatened species, and marine mammals. Boaters are requested to stay at least 200 yards away from these islands to avoid disturbance to these animals.

**WIRE DRAGGED AREAS**  
The areas within the dashed green lines have been swept clear to at least the depths indicated in fathoms and feet by the green numbers.

**COLREGS, 80.1390 (see note A)**  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

**NOTE B**  
**NAVAL OPERATING AREAS**  
Mariners should use caution as naval craft may be maneuvering within the areas. For further information, consult Local Notice to Mariners.

**NOTE C**  
Mariners are cautioned that the Washington State Ferries may deviate from the published standard routes due to inclement weather, traffic conditions, navigational hazards, or other emergency conditions. Standard ferry routes within the waters of the San Juan Islands are not displayed on this chart.

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington.  
Refer to charted regulation section numbers.

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Geological Survey, and U.S. Coast Guard.

**SOURCE DIAGRAM**  
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

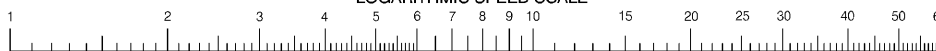
TIDAL INFORMATION				
PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
Thatcher Pass	(48°32'N/122°48'W)	feet	feet	feet
Bowman Bay, Fidalgo I	(48°25'N/122°39'W)	7.8	7.2	2.3
		7.7	7.1	2.5

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov>.  
(Nov 2006)

18429

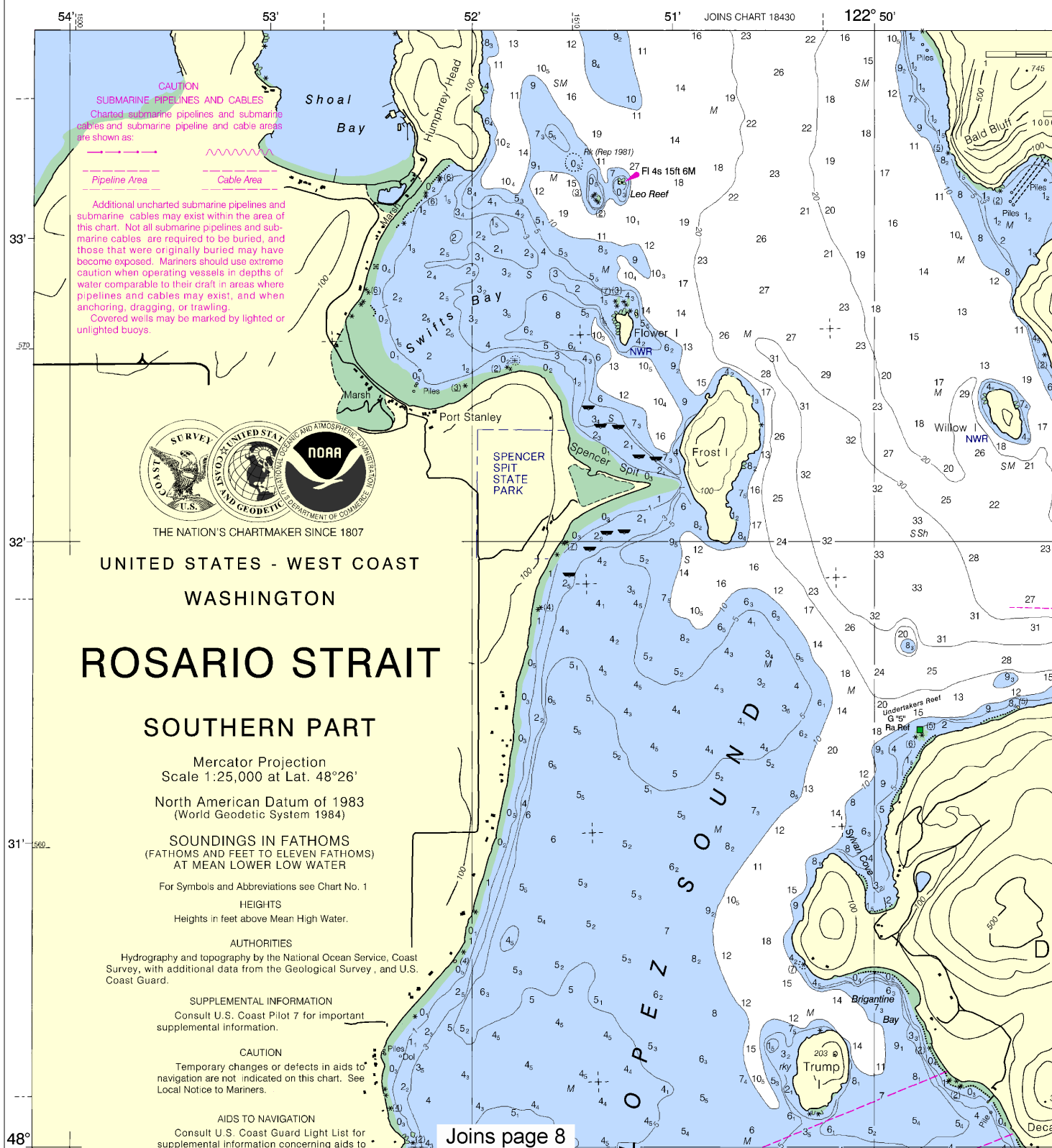
4

## LOGARITHMIC SPEED SCALE



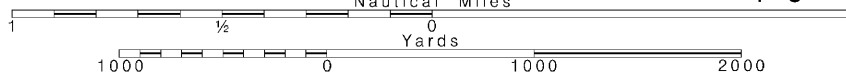
To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

This nautical chart Ocean Service encourages improving this chart to Service, NOAA, Silver



Printed at reduced scale. SCALE 1:25,000

See Note on page 5.



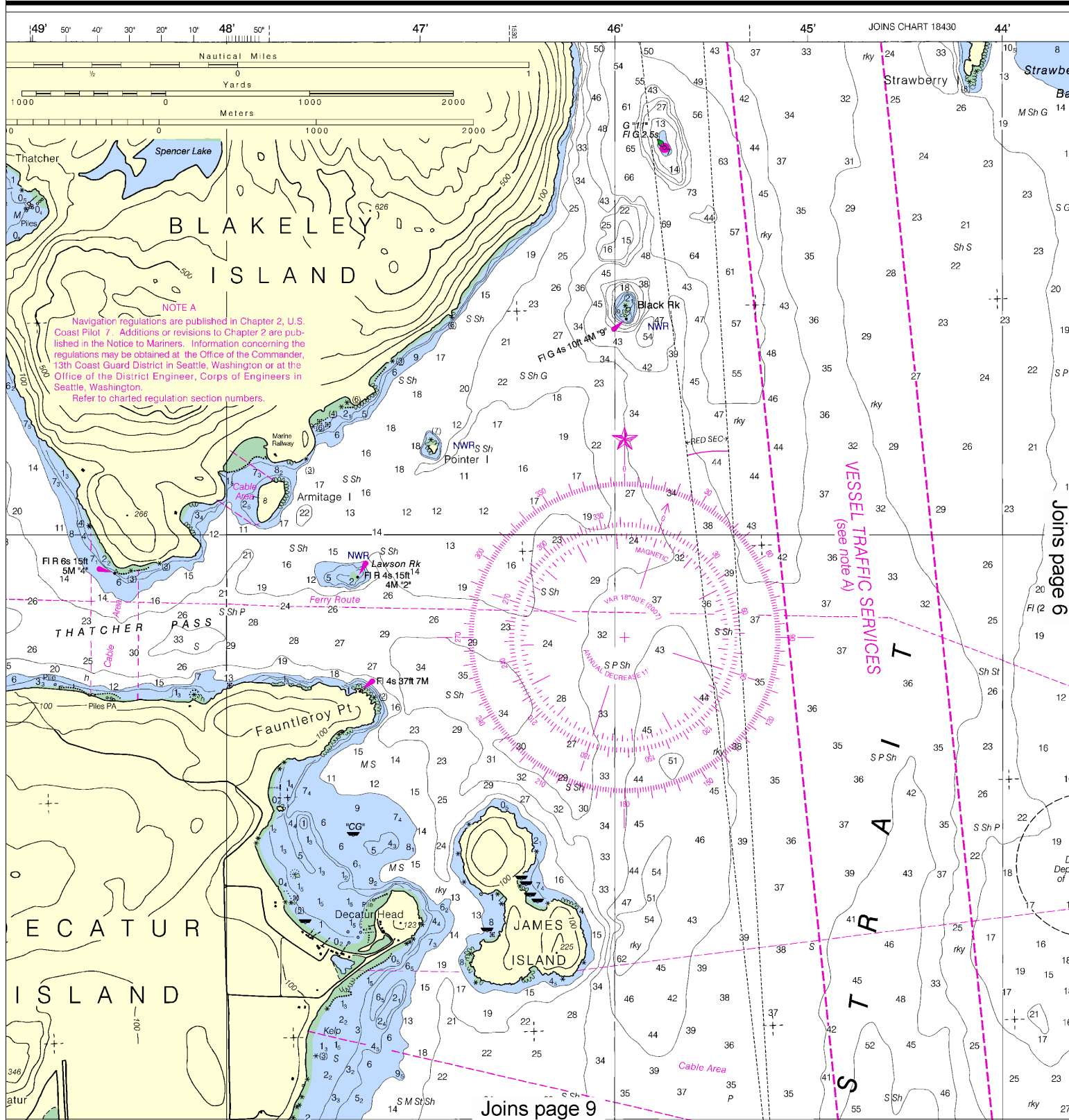
Note: Chart grid lines are aligned with true north.

art has been designed to promote safe navigation. The National  
urages users to submit corrections, additions, or comments for  
to the Chief, Marine Chart Division (N/CS2), National Ocean  
er Spring, Maryland 20910-3282.

1st Ed., Mar. 1979 KAPP 1682

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, [help@NauticalCharts.gov](mailto:help@NauticalCharts.gov), or OceanGrafix at 1-877-566CHART, <http://OceanGrafix.com>, or [help@OceanGrafix.com](mailto:help@OceanGrafix.com).



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:33333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

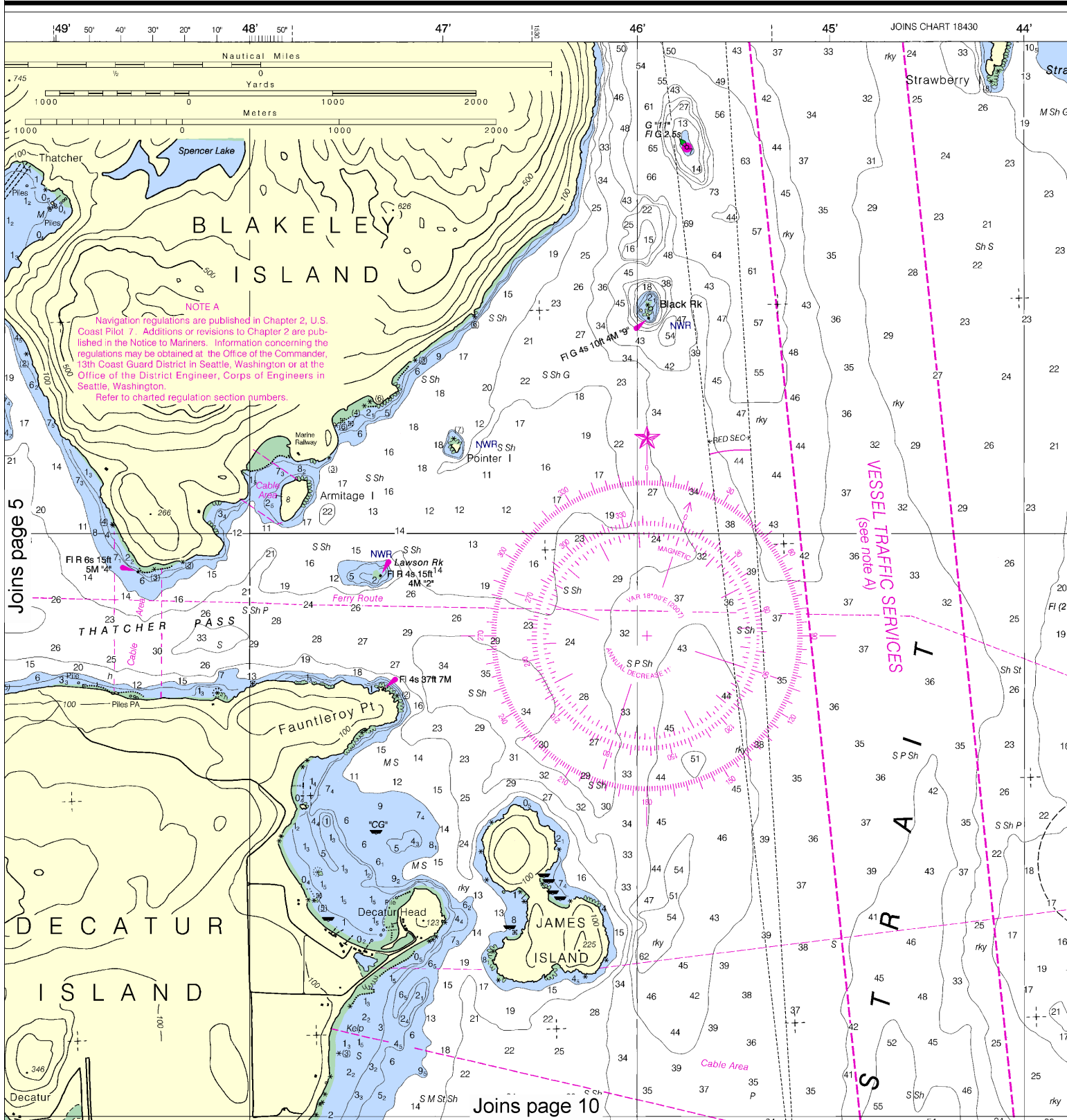
# 5

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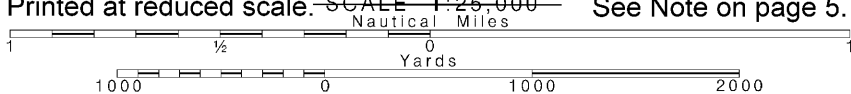


6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. SCALE 1:25,000

See Note on page 5.

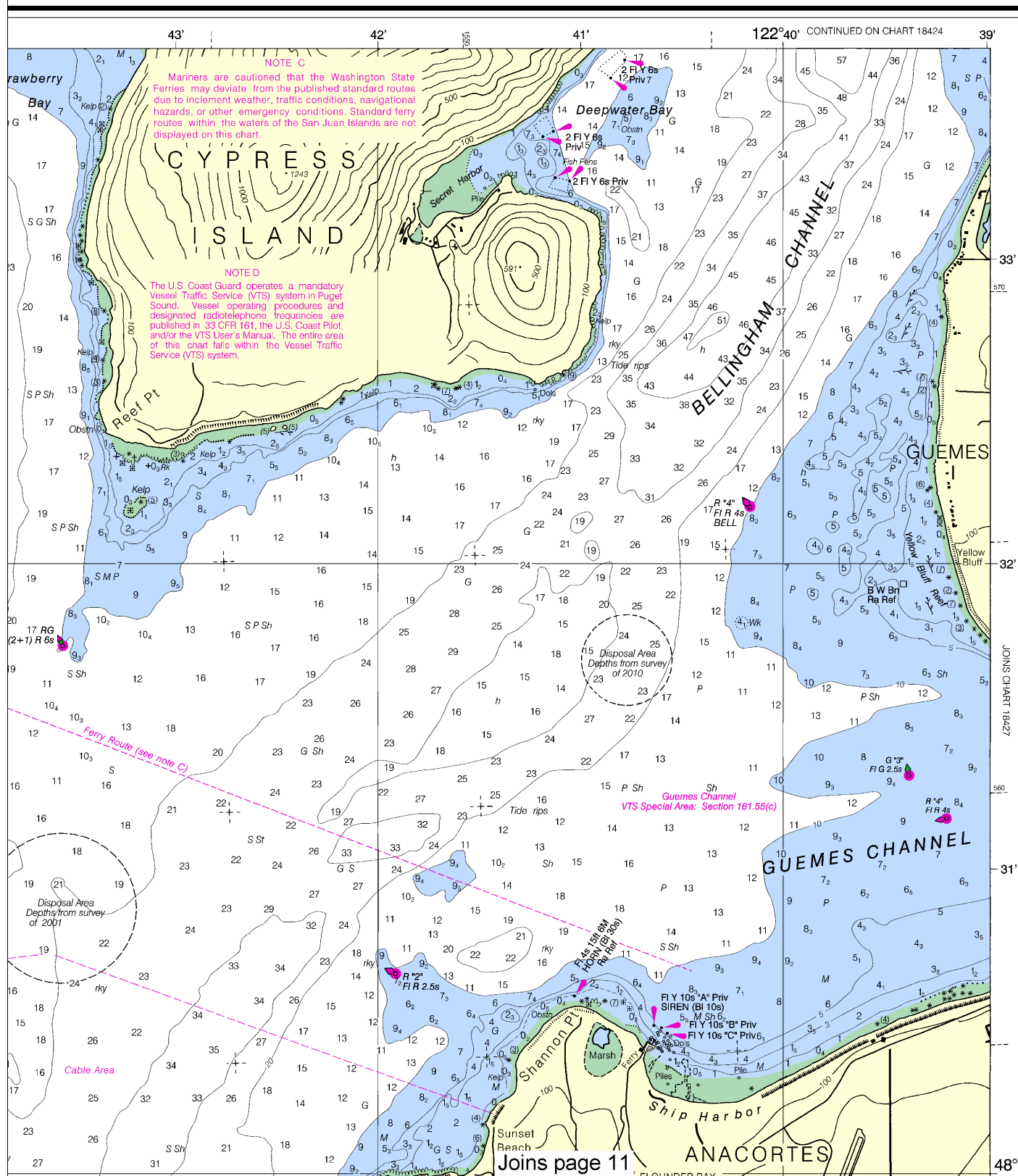




# HORIZONTAL DATUM

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## SOUNDINGS IN FATHOMS (FATHOMS AND FEET TO 11 FATHOMS)



Consult U.S. Coast Pilot 7 for important supplemental information.

**CAUTION**

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**AIDS TO NAVIGATION**

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**TIDAL INFORMATION**

NAME	PLACE (LAT/LONG)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
Thatcher Pass	(48°32'N/122°48'W)	7.8	7.2	2.3
Bowman Bay, Fidalgo I.	(48°25'N/122°39'W)	7.7	7.1	2.6

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov>. (Nov 2006)

**NOTE E**

**TRAFFIC SEPARATION SCHEME**

One-way traffic lanes overprinted on this chart are RECOMMENDED for use by all vessels traveling between the points involved. They have been designated to aid in the prevention of collisions in the Strait of Juan De Fuca waters, but are not intended in any way to supersede or alter the applicable Rules of the Road. Separation zones are intended to separate inbound and outbound traffic and to be free of ship traffic. Separation Zones should not be used except for crossing purposes. When crossing traffic lanes and separation zones, use extreme caution.

Precautionary Areas have been established where major lanes merge and cross the traffic separation scheme. It is recommended that vessels proceed with caution in these areas. Wherever practical, vessels entering or leaving the system should do so at these precautionary areas. For more information regarding Traffic Separation Scheme procedures and regulations, see 33 CFR 167 and / or chapter 2 of the US Coast Pilot.

For information governing the VESSEL TRAFFIC MANAGEMENT AND INFORMATION SYSTEM for the coastal waters of southern British Columbia, see National Geospatial-Intelligence Agency Publication 154, Sailing Directions (enroute) for British Columbia, and the Sailing Directions British Columbia Coast (South Portion) Volume 1, published by the Canadian Hydrographic Service.

**WIRE DRAGGED AREAS**

The areas within the dashed green lines have been swept clear to at least the depths indicated in fathoms and feet by the green numbers.

**COLREGS, 80.1390 (see note A)**

International Regulations for Preventing Collisions at Sea, 1972.

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The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Puget Sound, WA    WWG-24    162.425 MHz

**PLANE COORDINATE GR**

(based on NAD 1927)  
The Washington State Grid is in chart at 5000 foot intervals thus:  
The last three digits are omitted.

**WARNING**

The prudent mariner will not rely on any single aid to navigation, including floating aids. See U.S. Coast Pilot and U.S. Coast Pilot for details.

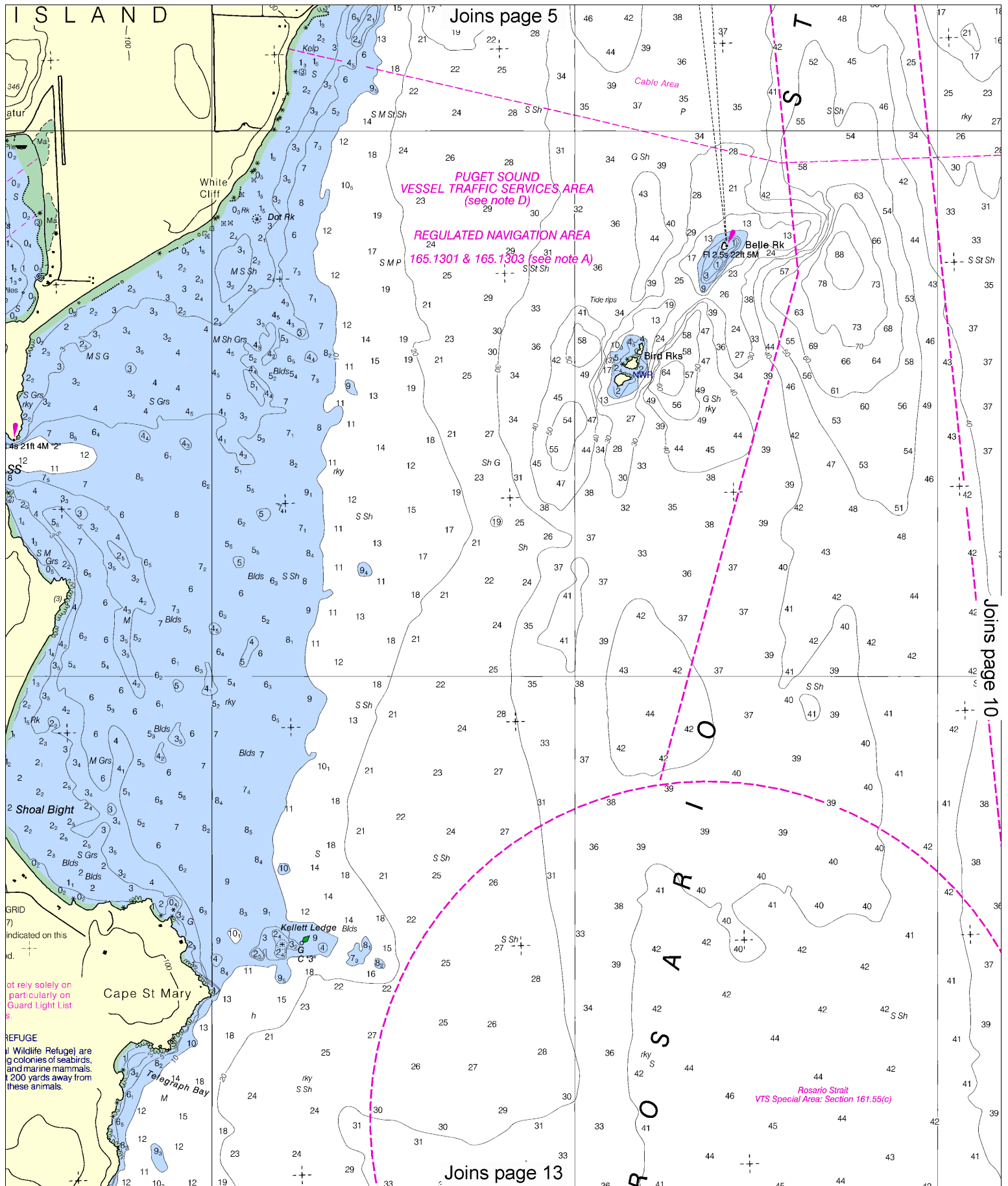
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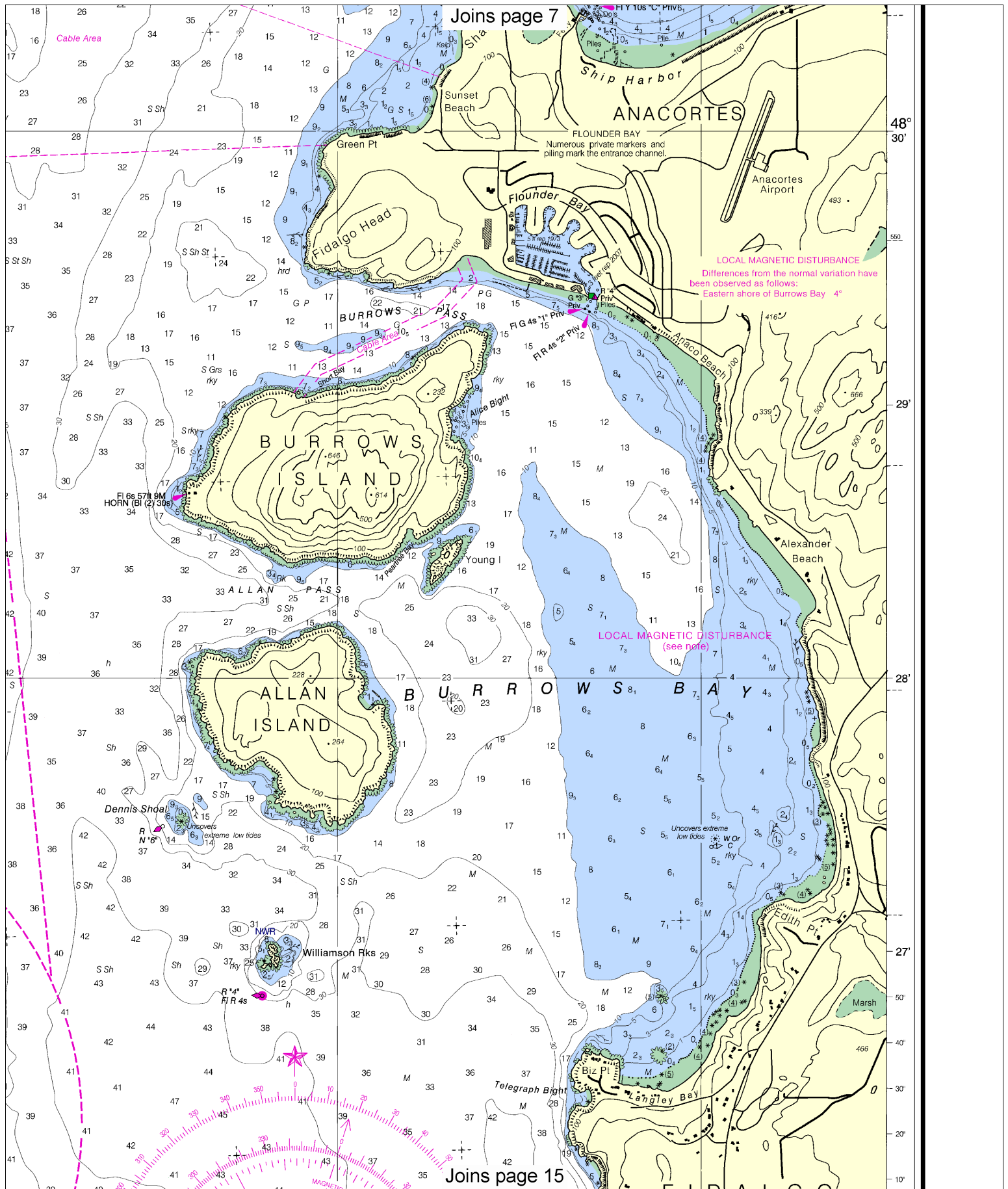
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Joins page 12

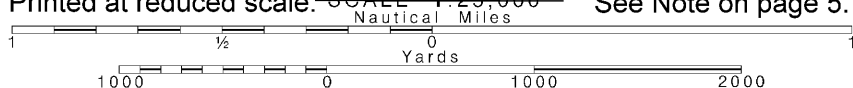
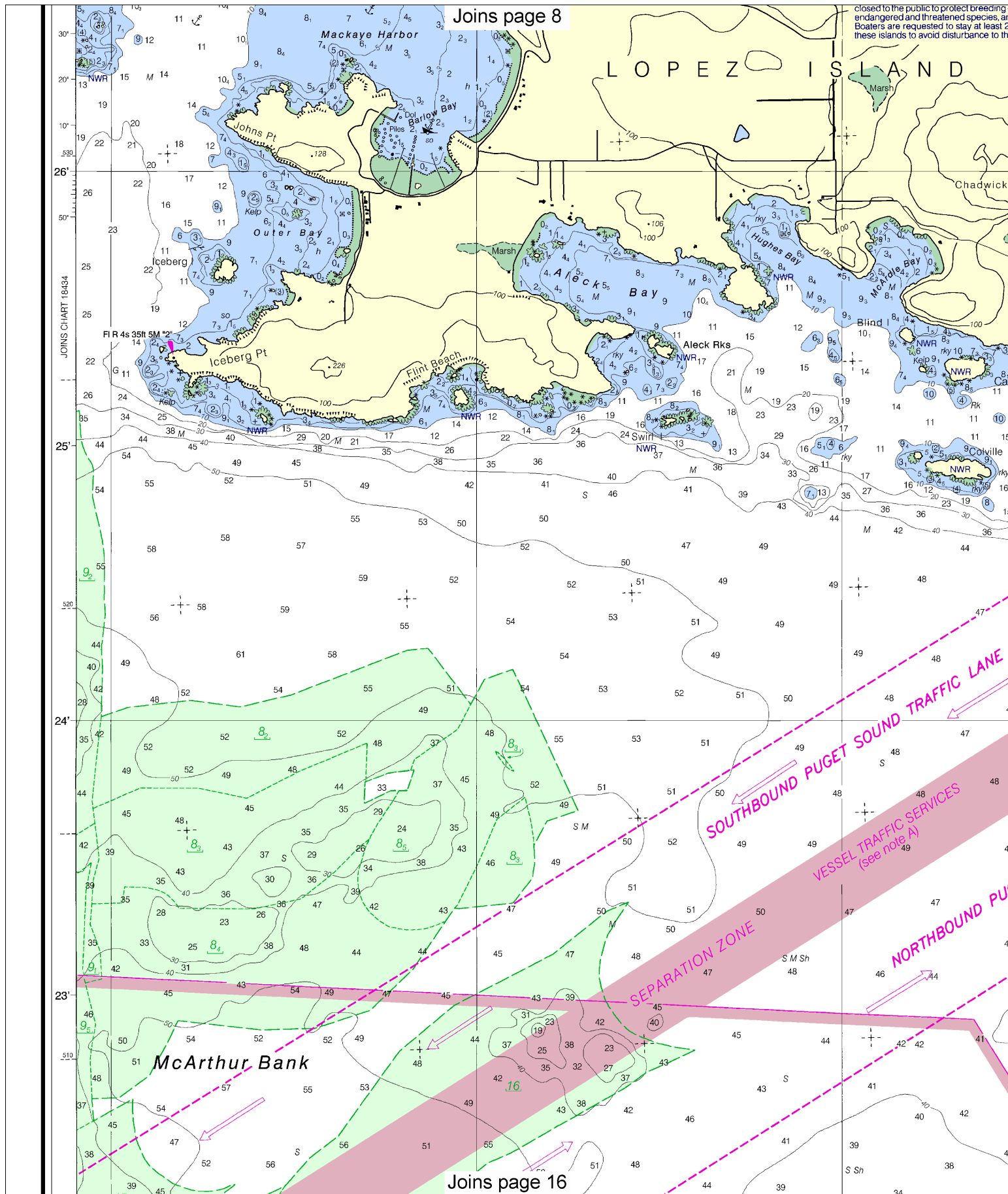


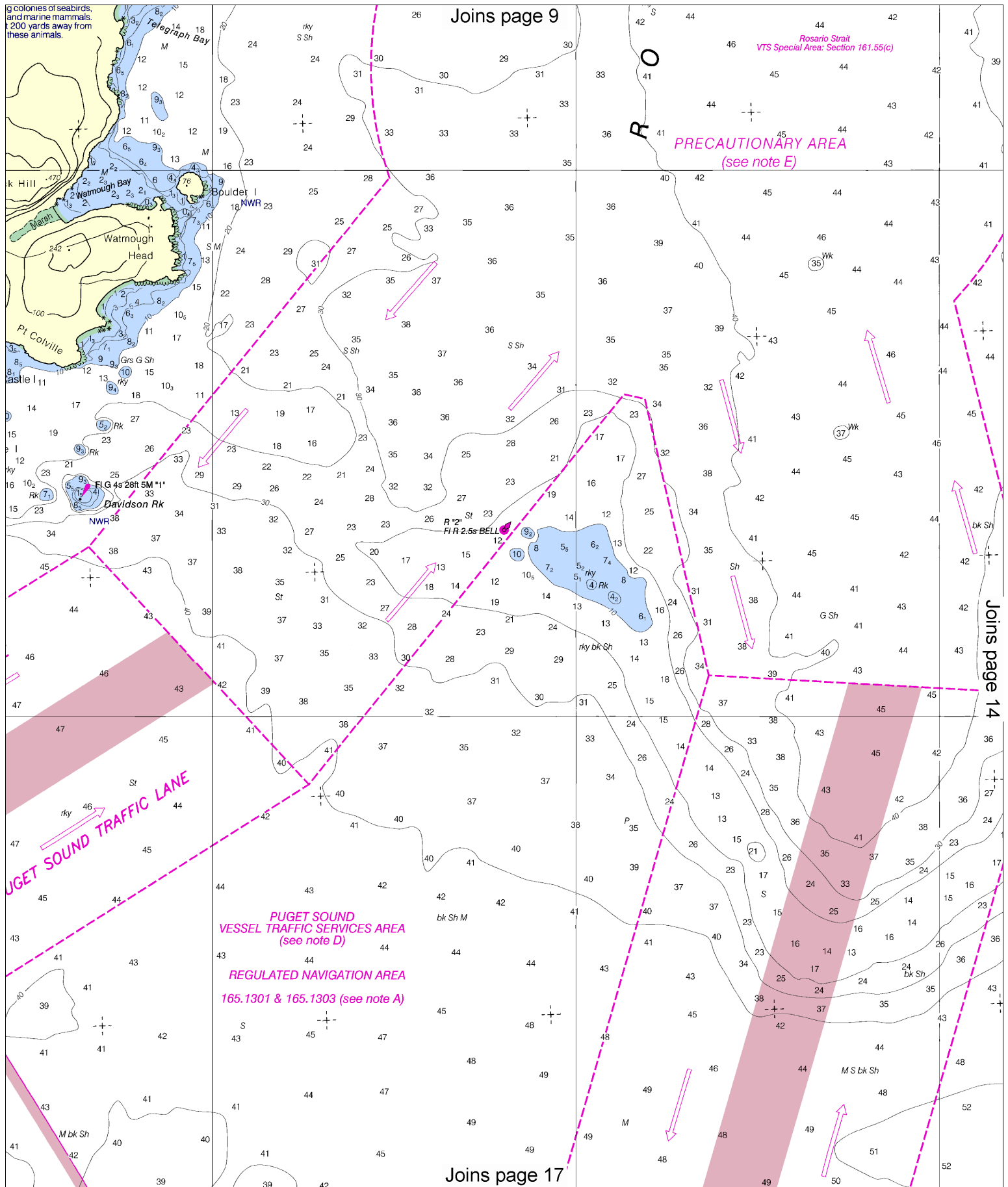


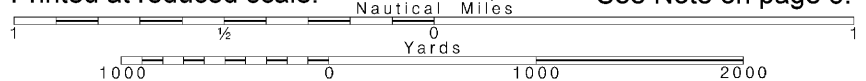
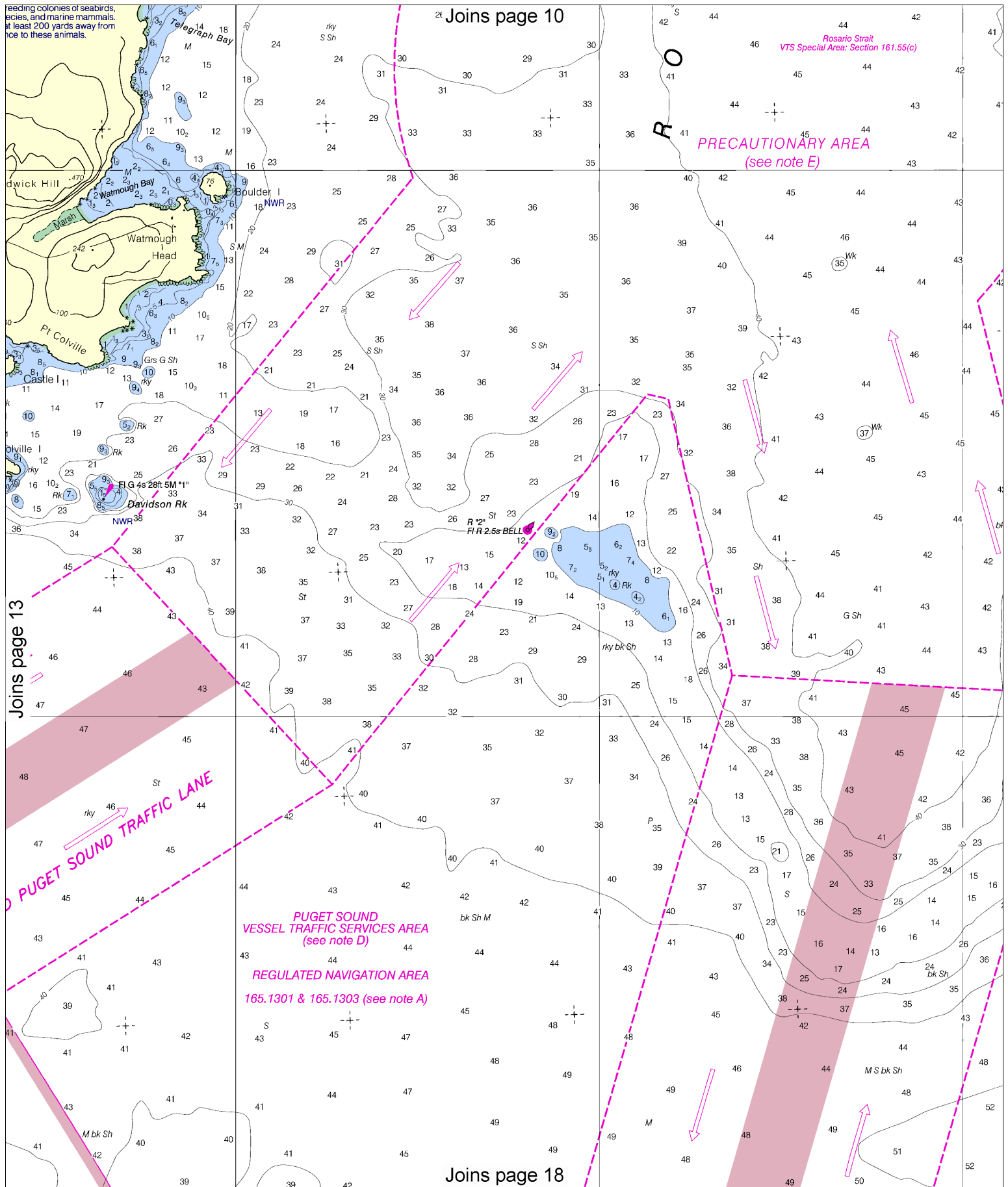




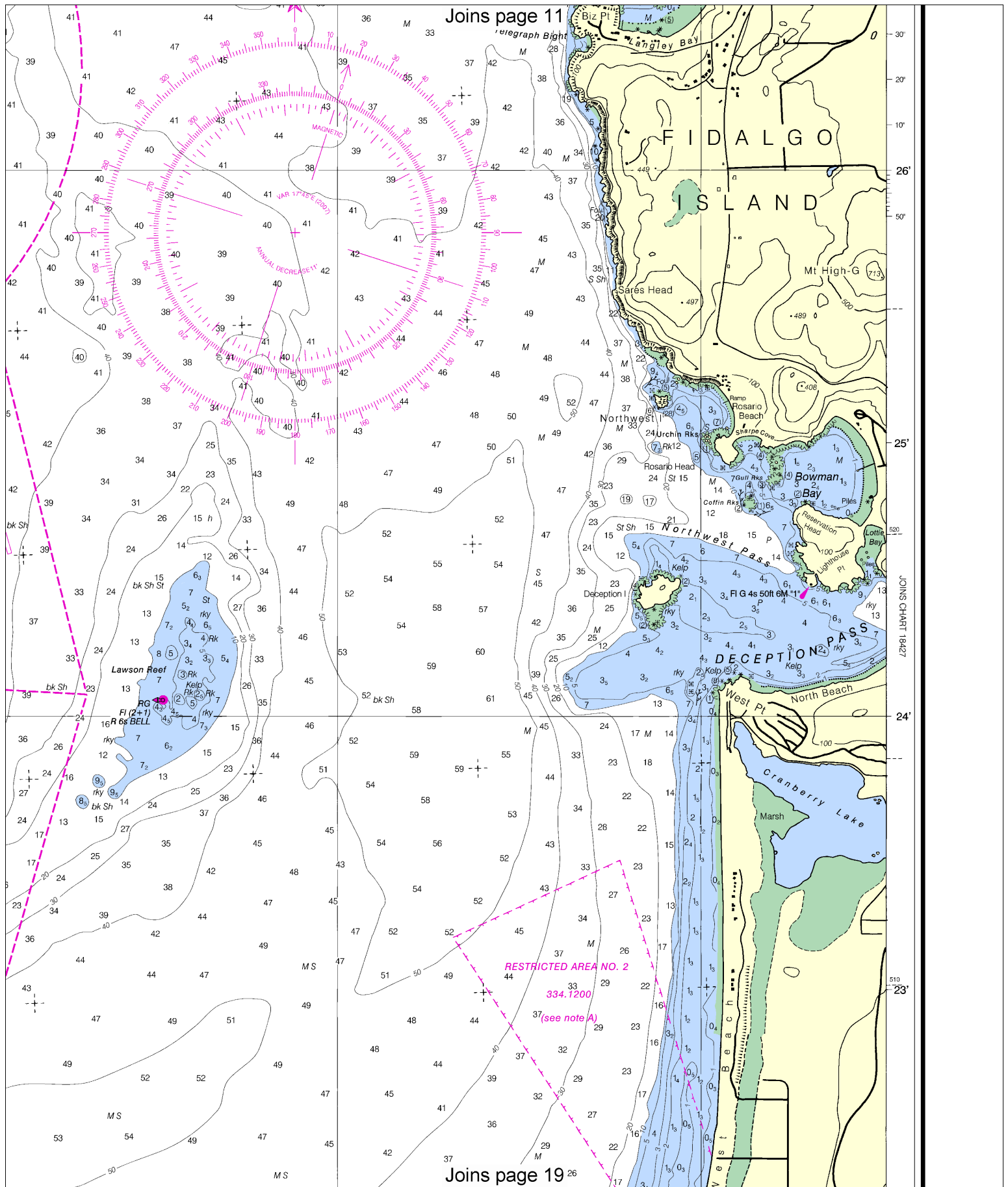


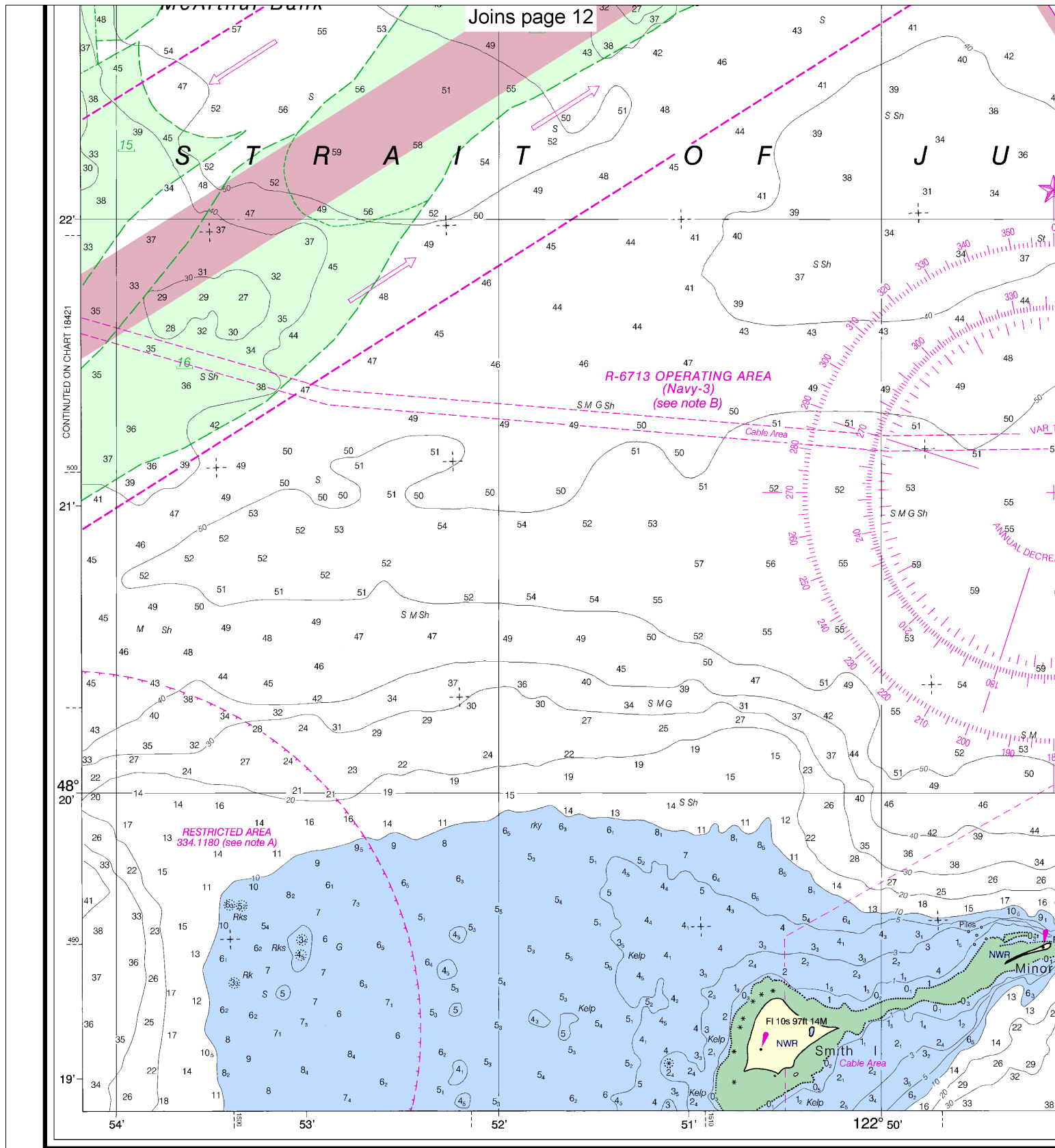












10th Ed., Jan. / 07 ■ Corrected through NM Jan. 13/07  
Corrected through LNM Jan. 02/07

**18429**

**CAUTION**

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

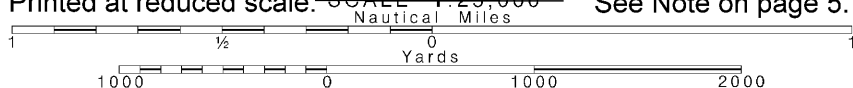
**SOUNDINGS IN**  
(FATHOMS AND FEET TO

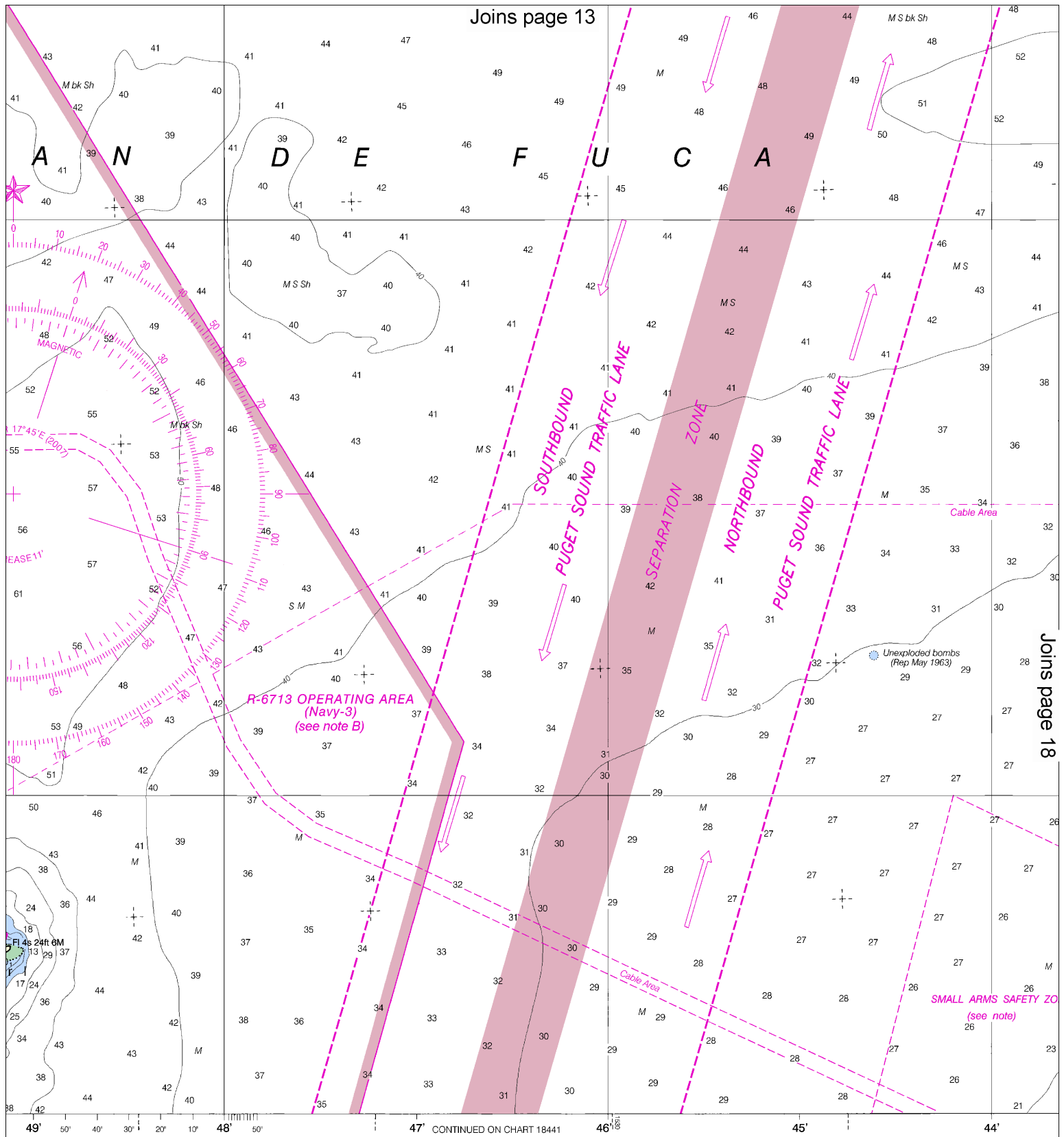
**16**

Note: Chart grid lines are aligned with true north.

Printed at reduced scale. SCALE 1:25,000

See Note on page 5.





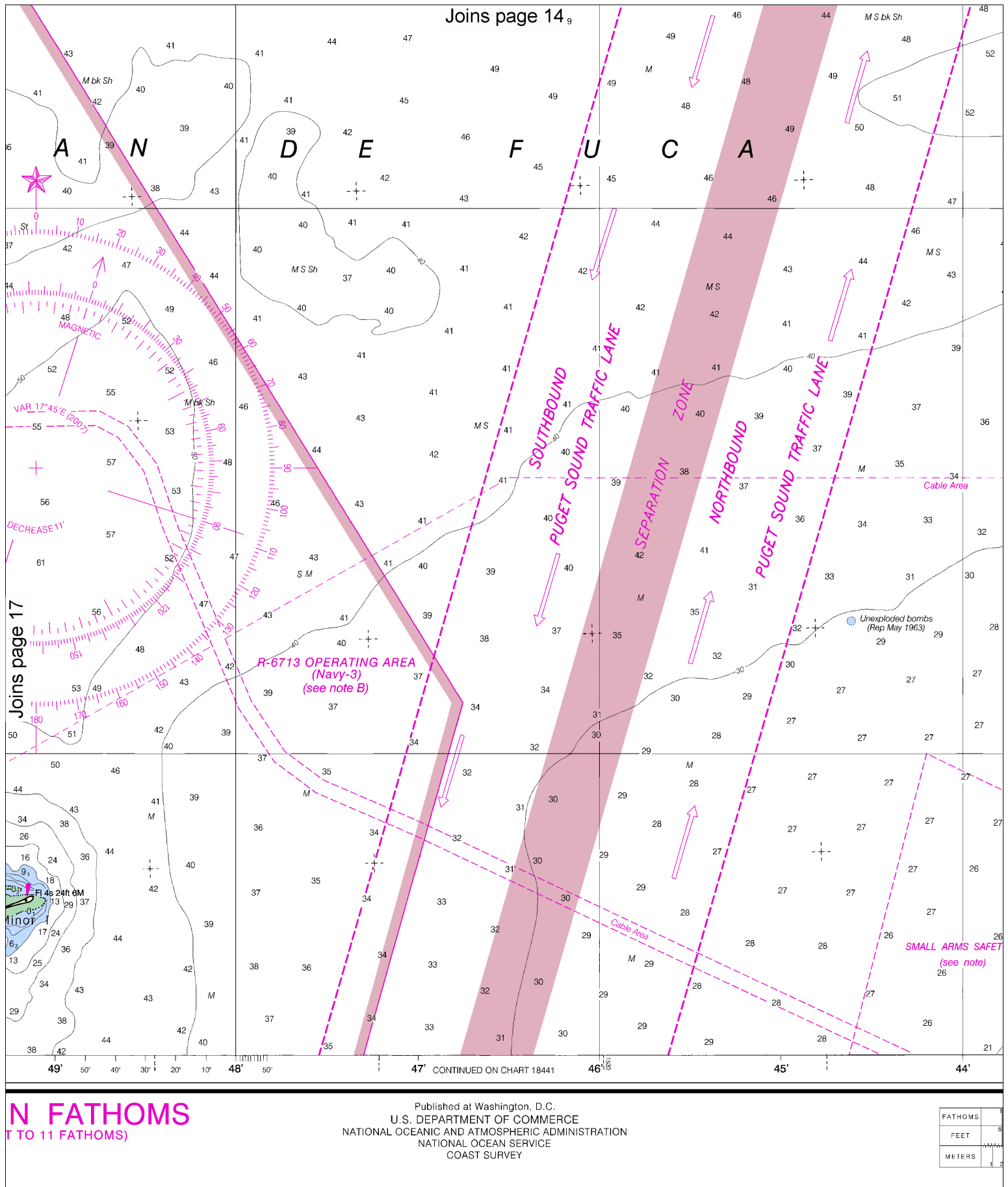
**FATHOMS**

(0 to 11 FATHOMS)

Published at Washington, D.C.  
 U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL OCEAN SERVICE  
 COAST SURVEY

FATHOMS	1	2
FEET	6	12
METERS	1	2





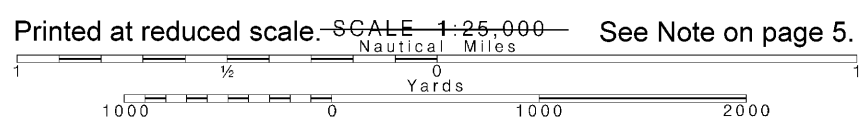
**18** N FATHOMS  
(TO 11 FATHOMS)

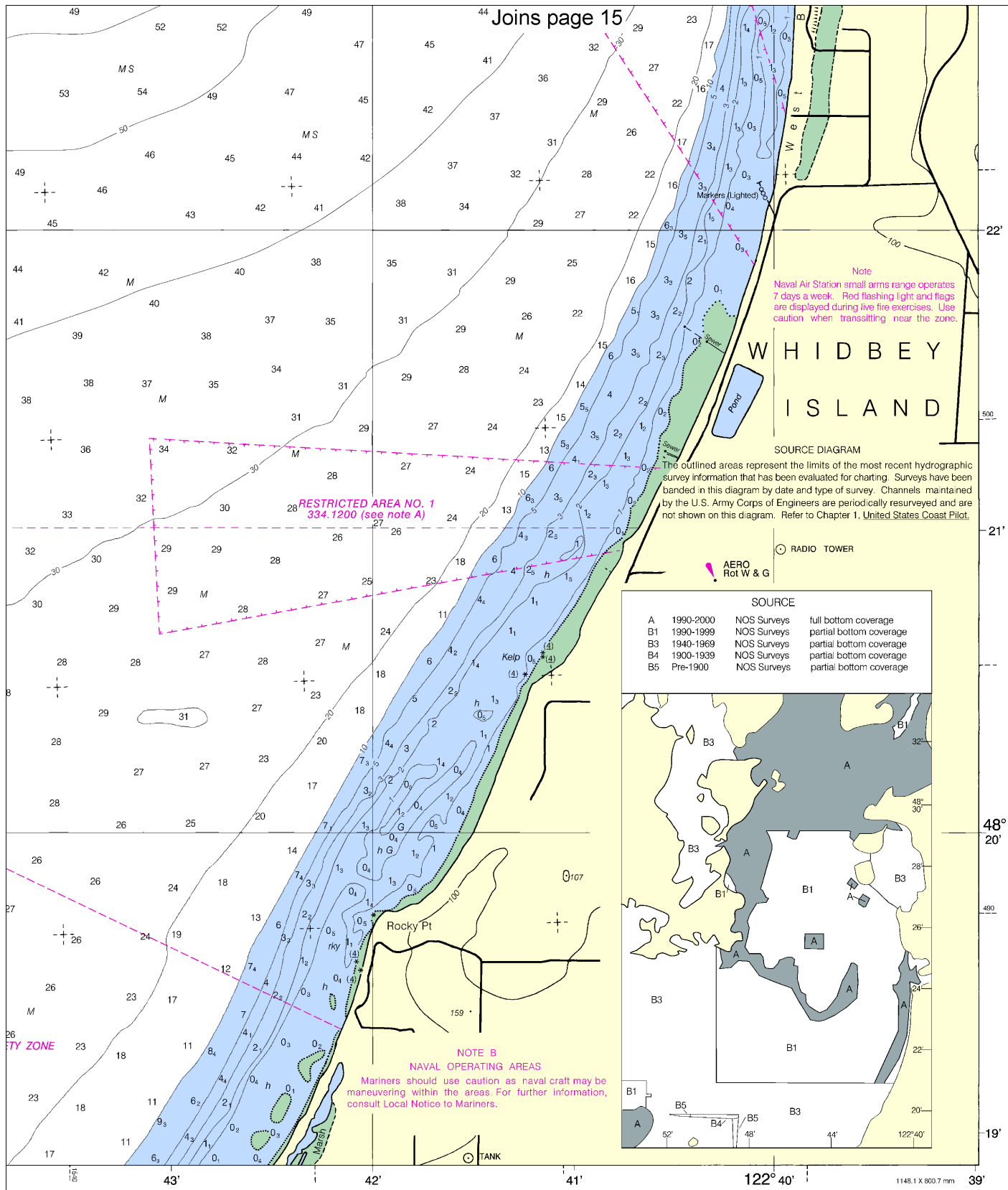
Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

FATHOMS	1
FEET	6
METERS	1.1

**18**

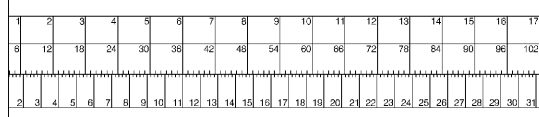
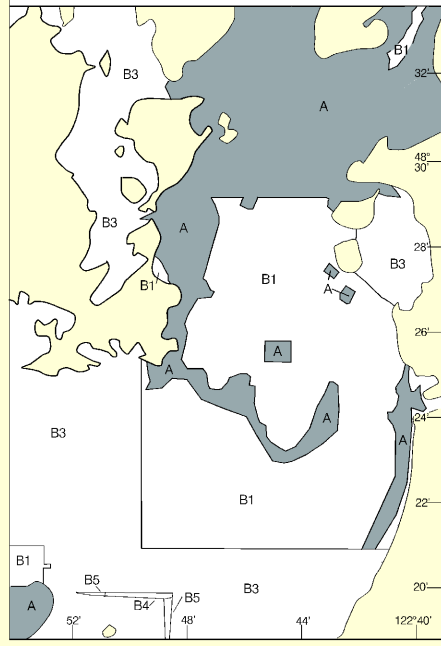
Note: Chart grid lines are aligned with true north.





SOURCE

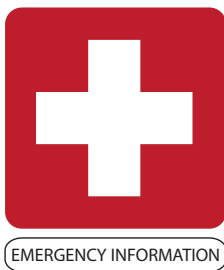
A	1990-2000	NOS Surveys	full bottom coverage
B1	1990-1999	NOS Surveys	partial bottom coverage
B3	1940-1969	NOS Surveys	partial bottom coverage
B4	1900-1939	NOS Surveys	partial bottom coverage
B5	Pre-1900	NOS Surveys	partial bottom coverage



Rosario Strait, Southern Part  
SOUNDINGS IN FATHOMS - SCALE 1:25,000

18429

ED. NO. 10  
NSN 7642014011561  
NGA REFERENCE NO. 188HA18429



## VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

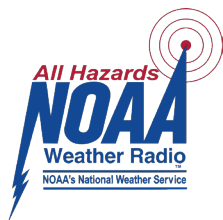
**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

## Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

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NowCoast web portal for coastal conditions	—	<a href="http://www.nowcoast.noaa.gov/">http://www.nowcoast.noaa.gov/</a>
National Weather Service	—	<a href="http://www.weather.gov/">http://www.weather.gov/</a>
National Hurricane Center	—	<a href="http://www.nhc.noaa.gov/">http://www.nhc.noaa.gov/</a>
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